NORTH CAROLINA DIVISION OF AIR QUALITY

Application Review

Issue Date: DRAFT

Region: Mooresville Regional Office

County: Cleveland NC Facility ID: 2300115

Inspector's Name: Karyn Kurek **Date of Last Inspection:** 10/02/2019

Compliance Code: 3 / Compliance - inspection

Facility Data

Applicant (Facility's Name): General Shale Brick, Inc. - Kings Mountain Facility

Facility Address:

General Shale Brick, Inc. - Kings Mountain Facility

1622 Longbranch Road

Grover, NC 28073

SIC: 3251 / Brick And Structural Clay Tile

NAICS: 327121 / Brick and Structural Clay Tile Manufacturing

Facility Classification: Before: Title V After: Title V Fee Classification: Before: Title V After: Title V

Permit Applicability (this application only)

SIP: 15A NCAC 02D .0515, .0516, .0521, .0524,

.1109, .1111, and .1806

NSPS: 40 CFR 60, Subpart OOO

NESHAP: 40 CFR 63, Subpart CCCCCC

PSD:

PSD Avoidance: NC Toxics: 112(r):

Other: Case-by-Case Brick MACT

Contact Data			Application Data
Facility Contact	Authorized Contact	Technical Contact	Application Number: 2300115.17A
Chris Tipton Plant Manager (704) 937-7431 1622 Longbranch Road Grover, NC 28073	Kevin Ham VP Engineering & Research (423) 282-4661 3015 Bristol Highway Johnson City, TN 37601	J. Warren Paschal Manager of Environmental Compliance (919) 774-6533 300 Brick Plant Road	Date Received: 12/08/2017 Application Type: Renewal Application Schedule: TV-Renewal Existing Permit Data Existing Permit Number: 06156/T12 Existing Permit Issue Date: 12/18/2014 Existing Permit Expiration Date: 09/30/2018

Moncure, NC 27559

Total Actual	emissions i	n TON	S/YEAR.
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CY	SO2	NOX	voc	co	PM10	Total HAP	Largest HAP
2018	9.60	5.02	0.7700	17.19	16.57	14.72	12.18 [Hydrogen fluoride (hydrofluori]
2017	10.27	5.36	0.8300	18.39	17.51	15.74	13.02 [Hydrogen fluoride (hydrofluori]
2016	10.22	5.34	0.8300	18.31	17.52	15.68	12.97 [Hydrogen fluoride (hydrofluori]
2015	11.38	5.95	0.9200	20.39	16.28	17.50	14.44 [Hydrogen fluoride (hydrofluori]
2014	8.57	4.48	0.6900	15.36	12.02	13.18	10.88 [Hydrogen fluoride (hydrofluori]

Review Engineer: Jenny Sheppard Comments / Recommendations:

Review Engineer's Signature:

Date: DRAFT

Issue 06156/T13

Permit Issue Date:
Permit Expiration Date:

1. Purpose of Application:

This permitting action is a renewal of an existing Title V permit pursuant to 15A NCAC 02Q .0513. The existing Title V permit (06156T12) was issued on December 18, 2014. The renewal application was received on December 8, 2017 and deemed complete. Since the renewal application was received at least nine months prior to the expiration date, the existing permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of the existing permit shall remain in effect until the renewal permit has been issued or denied.

2. Facility Description

General Shale Brick, Inc. owns and operates a brick manufacturing facility in Grover, NC. The facility is operating under the existing air permit 06156T12 issued on December 18, 2017.

3. History/Background/Application Chronology

October 17, 2013 – Renewal and Significant Modification (add 112(j)), permit number 06156T10 issued by Jenny Sheppard.

February 3, 2014 – Ownership/Name Change, permit 06156T11 issued by Connie Horne.

December 18, 2014 – Significant modification Part I to add thin brick kiln ES-4, permit 06156T12 issued by Jenny Sheppard.

December 8, 2017 - Application 2300115.17A received as TV renewal application. Changes to renewal permit noted by regional inspector received via email February 20, 2018 again on September 24, 2019.

4. Permit Modifications/Changes and ESM Discussion

Table of changes to permit 06156T12

Page(s)	Section	Description of Change(s)
Throughout		Update permit revision number and issue date, revise
		insignificant activity list and TVEE
	Insignificant	Add MACT 6C reference to I-Tank4
	Activities	
3	Section 1, Table	Added note for ES-4 concerning 02Q .0501(b)(2) second
		step
4-11	Section 2.1	Starting in Section 2.1 A through 2.2 A updating all
		conditions to current language and other permit language
		as it applies.
12	Section 3	General Conditions updated to current language

5. Regulatory Review

The facility is subject to the following regulations:

15A NCAC 2D .0515, Particulates from Miscellaneous Industrial Processes

15A NCAC 2D .0516, Sulfur Dioxide Emissions from Combustion Sources

15A NCAC 2D .0521, Control of Visible Emissions

15A NCAC 2D .0524, NSPS 40 CFR Part 60 Subpart OOO

15A NCAC 2D .1806, Control of Odorous Emissions (State-Enforceable Only)

15A NCAC 2D .1109, CAA § 112(j); Case-by-Case MACT for Brick Manufacturers

A regulatory review for these current permit conditions will not be included in this document as the applicability to these has not changed from when it was originally established. Where applicable, the permit conditions have been modified to reflect current working shell conditions.

6. NSPS, NESHAPS/MACT, PSD, 112(r), CAM

NSPS

The facility (emission sources, ES-F2, ES-F4, and ES-F3) is currently subject to New Source Performance Standard (NSPS) OOO. Two conveyors and one primary crusher (ES-F2, ES-F4, and ES-F3) are affected sources under 40 CFR 60 Subpart OOO. For the conveyors (ID Nos. ES-F2 and ES-F4), the Permittee shall meet the requirements of this Subpart by demonstrating compliance with 40 CFR 60.672(b) particulate matter emissions limit of ten (10) percent opacity from each individual affected facility. For the primary crusher (ID No. ES-F3), the Permittee shall meet the requirements of this Subpart by demonstrating compliance with 40 CFR 60.672(c) particulate matter emissions limit of fifteen (15) percent opacity. The permit includes the appropriate Subpart language and continued compliance is expected.

NESHAP/MACT

15A NCAC 02D .1109 – CAA Section 112(j); Case-by-Case MACT for Brick Manufacturers – On March 13, 2007, the D.C. Circuit Court vacated the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Brick & Structural Clay Products Manufacturing, which had been promulgated under 40 CFR 63, Subpart JJJJJ. The North Carolina Attorney General's office has determined that the NESHAP vacatur equates to the failure of the U.S. EPA to promulgate a standard as required under Section 112(d) of the Clean Air Act (CAA). As a result, the site-specific Maximum Achievable Control Technology (MACT) standards required under CAA Section 112(j), commonly referred to as the MACT "hammer" provisions, have been triggered. North Carolina regulations implementing the MACT hammer are found at 15A NCAC 02D .1109.

Re: Kilns with a Capacity < 10 tph (Natural gas/propane as fuel)

On November 3, 2009, the NC DAQ received a Part 2 MACT "Hammer" application from this facility for the natural gas/propane-fired tunnel kiln. The kiln (ID No. ES-1) has a design capacity of 10 tons per hour. The facility has requested a limitation of less than 10 tons/hour of fired product total on a 12-month rolling average basis. The NC DAQ has determined that MACT is the use of best work practice standards for the tunnel kiln rated at less than 10 tons per hour.

NESHAP for Brick and Structural Clay Products final rule was effective on December 28, 2015. Currently the facility has 112(j) Case By Case MACT requirements that will sunset December 27, 2023. The application states the facility will continue to comply with Section 112(j) requirements and have deferred their decision to comply with the requirements of Section 112(d) or become HAP minor at a later date.

<u>15A NCAC 02D .1111 – 40 CFR 63 Subpart CCCCCC – NESHAP for Gasoline Dispensing Facilities</u>

The facility has a 1000 gallon gasoline storage tank (ID No. I-Tank4) and is subject to MACT CCCCC. The tank is currently on the Insignificant Activities list and the rule reference has been add. Compliance is expected.

PSD

This facility is currently minor for PSD purposes. This permit renewal does not affect this status.

Attainment Status

This facility is located in Cleveland County, which is currently in attainment. Cleveland County has triggered increment tracking under PSD for PM_{2.5}, PM₁₀, SO₂, and NO_x. However, this permit renewal does not consume or expand increments for any pollutants.

112(r)

This facility is not subject to Section 112(r) of the Clean Air Act requirements because it does not store any of the regulated substances in quantities above the thresholds in the Rule. This permit renewal does not affect this status.

CAM

40 CFR 64 requires that a continuous assurance monitoring plan be developed for all equipment located at a major facility that have pre-controlled emissions above the major source threshold and use a control device to meet an applicable standard. The facility has evaluated each source for CAM applicability and has determined that the sources either do not have a control device to meet compliance with an emission limit or a standard for a federally regulated pollutant or the sources have uncontrolled potential emission of less than 100 tons. Therefore, CAM does not apply to this facility at this time. No new control devices have been added since the last renewal.

7. Facility Wide Air Toxics

There is no change required for this renewal.

8. Facility Compliance Status/Compliance History:

The last compliance inspection was performed on October 2, 2019 by Karyn Kurek and the facility was found likely to be in compliance. Since the last renewal, the facility has been issued two Notices of Violation for Monitoring and Record Keeping violations for ES-2, the four rock facing operations (dated February 15 and October 8 of 2018). The permit requires weekly VE requirements (placed in the permit at the last renewal). The facility was performing monthly observation as is required by all other emission sources in the permit. As a result, the facility and the region requested the weekly observation be changed to monthly. This change has been made as part of this latest renewal.

9. Public Notice/EPA and Affected State(s) Review

A notice of the DRAFT Title V Permit shall be made pursuant to 15A NCAC 02Q .0521. The notice will provide for a 30-day comment period, with an opportunity for a public hearing. Consistent with 15A NCAC 02Q .0525, the EPA will have a concurrent 45-day review period. Copies of the public notice shall be sent to persons on the Title V mailing list and EPA. Pursuant to 15A NCAC 02Q .0522, a copy of each permit application, each proposed permit and each final permit shall be provided to EPA. Also, pursuant to 02Q .0522, a notice of the DRAFT Title V Permit shall be provided to each affected State at or before the time notice is provided to the public under 02Q .0521 above. The State of Virginia and the Forsyth County Local Program are affected state/local program within 50 miles of the facility.

The following comments were received: Complete after comment period.

10. Conclusions, Comments, and Recommendations

A professional engineer's seal was not required for the renewal application.

A consistency determination was not required for the renewal application.

MRO recommends issuance of the permit and was sent a DRAFT permit prior to issuance. RCO concurs with MRO's recommendation to issue the renewed air permit.